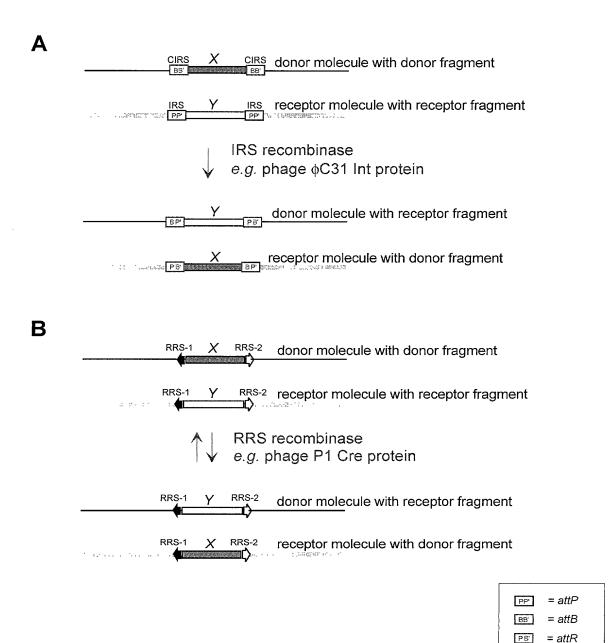
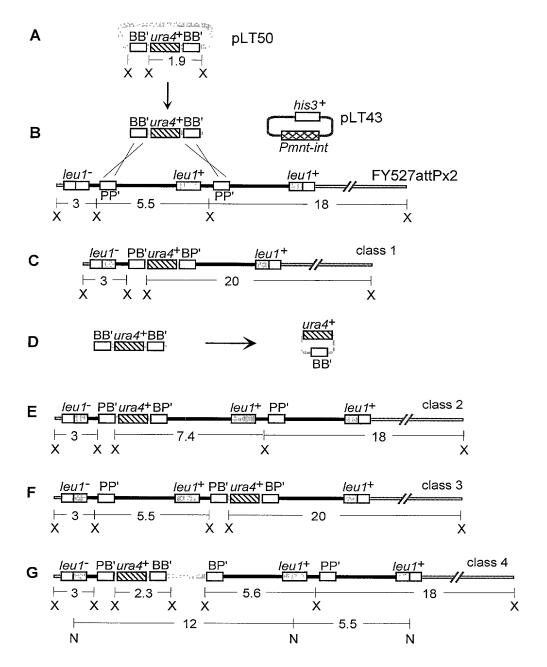
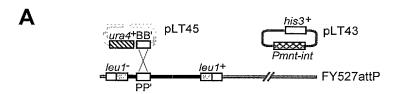
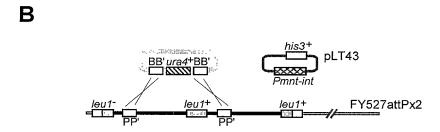
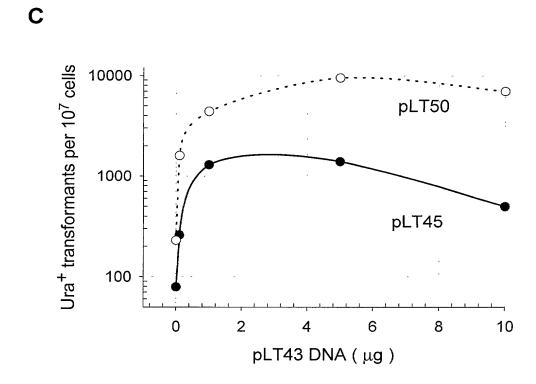
= attL = loxP = lox511



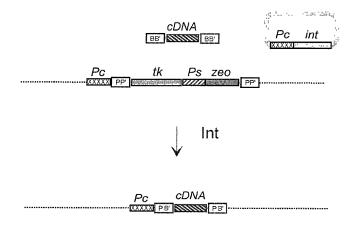








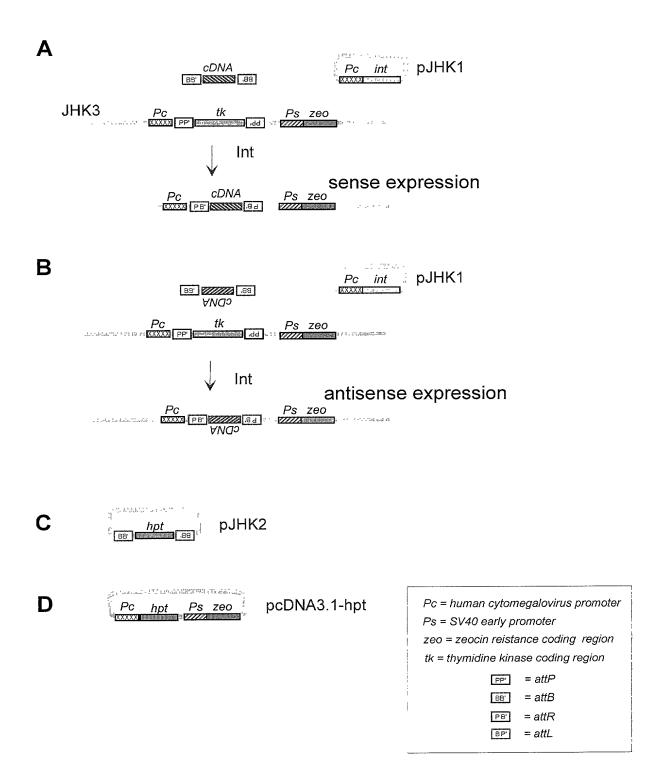
# cDNA integration in mammalian cells transient expression of *int*



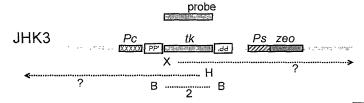
Pc = human cytomegalovirus promoter
Ps = SV40 early promoter
zeo = zeocin resistance coding region
tk = thymidine kinase coding region
int = integrase coding region

| PP' = attP
| BB' = attB
| PB' = attR
| BP' = attL

#### Strategy for cDNA integration in mammalian cells



#### E Single copy target construct in human cells



Pc = human cytomegalovirus promoter
Ps = SV40 early promoter
zeo ≈ zeocin reistance coding region
tk = thymidine kınase coding region

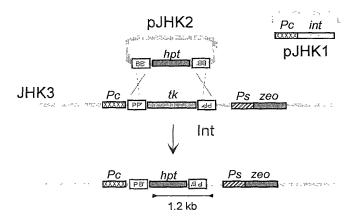
PP' = attP

вв' = attВ

PB' = attR

BP' = attL

#### F PCR detection of DNA exchange



## cDNA integration in plant cells *int* expressed from target site

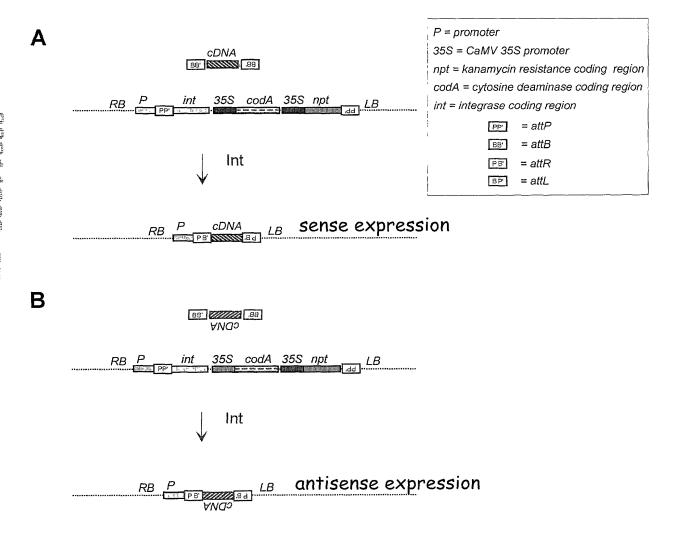
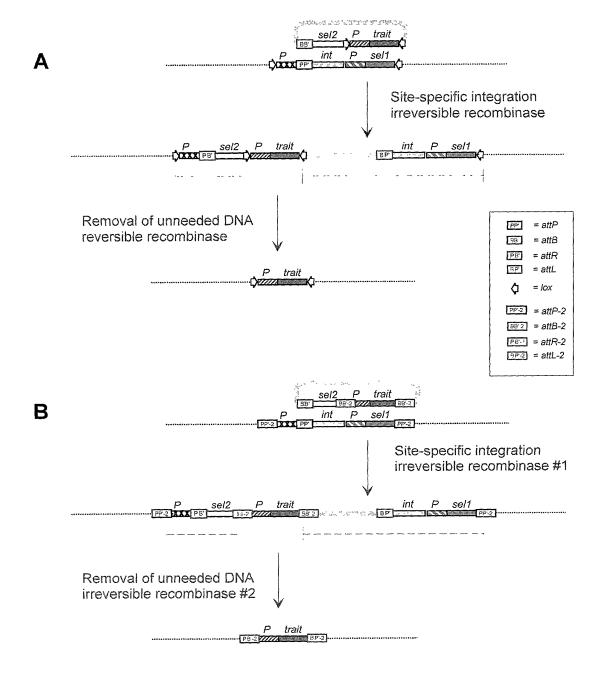
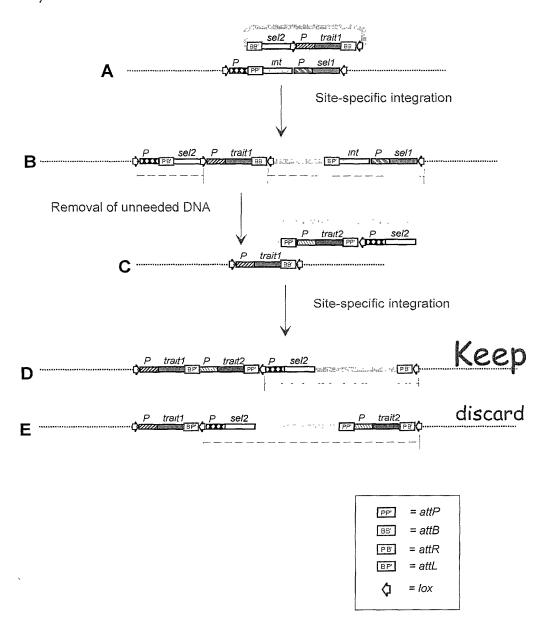


Figure 7

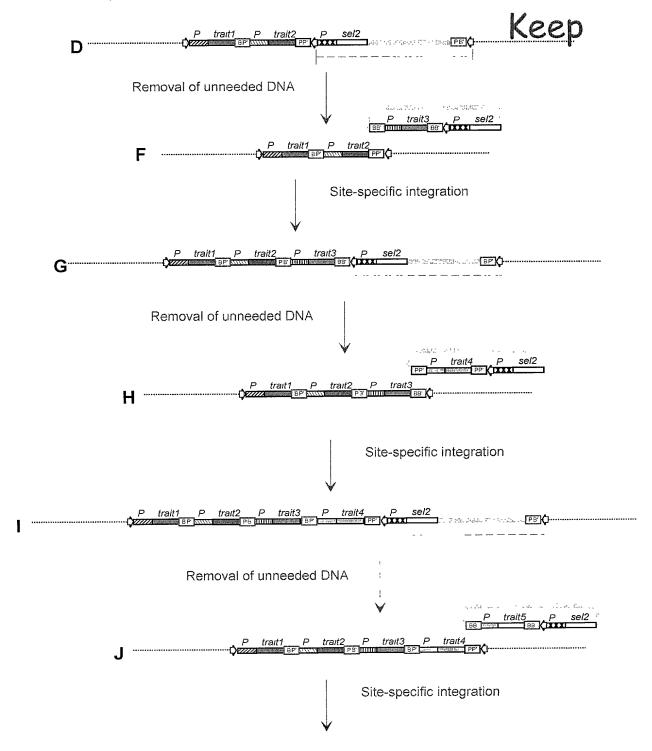
General strategy to incorporate only the trait gene



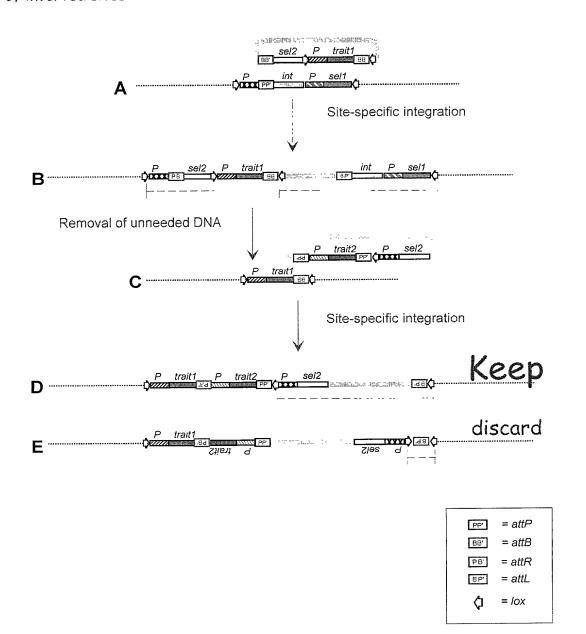
#### General strategy to stack genes, part1 Use of directly oriented sites



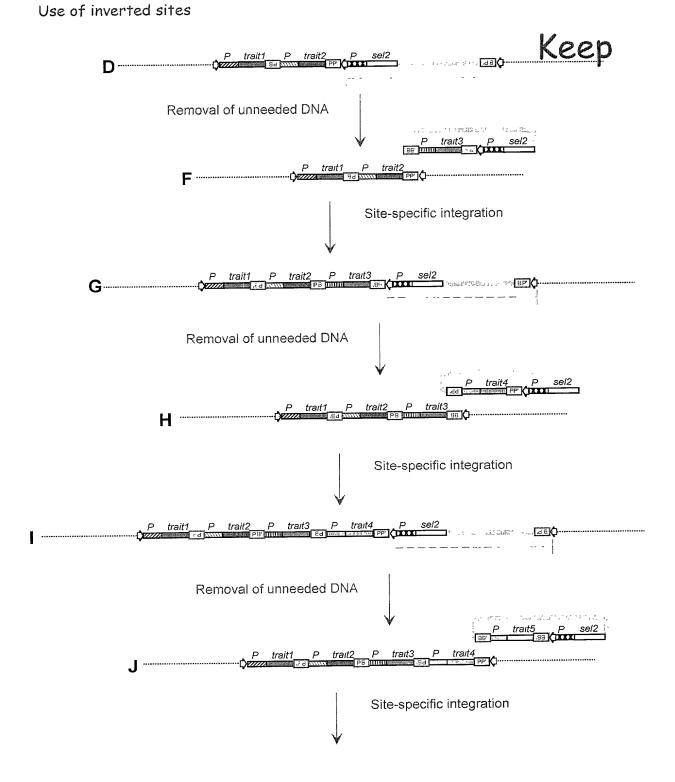
#### General strategy to stack genes, part2 Use of directly oriented sites



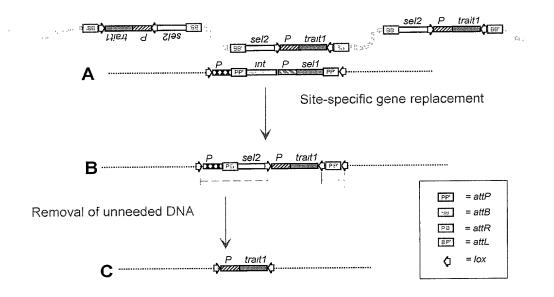
### General strategy to stack genes, part1 Use of inverted sites



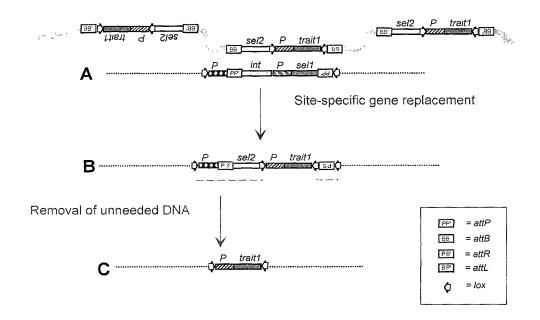
### General strategy to stack genes, part2



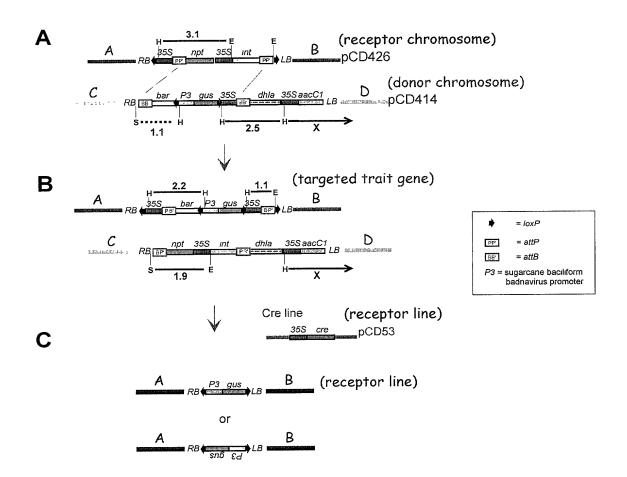
Gene replacement in the host genome with directly oriented dual sites



#### Gene replacement in the host genome with inverted dual sites



#### Transgene translocation from one chromosome to another



#### Transgene translocation using reversible recombination systems

